

Sanjiv Sam Gambhir

List of Publications by Year in descending order

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Version: 2024-02-01

217
papers

23,122
citations

11608

70
h-index

8370

147
g-index

230
all docs

230
docs citations

230
times ranked

26969
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular imaging of cancer with positron emission tomography. <i>Nature Reviews Cancer</i> , 2002, 2, 683-693.	12.8	1,481
2	Carbon nanotubes as photoacoustic molecular imaging agents in living mice. <i>Nature Nanotechnology</i> , 2008, 3, 557-562.	15.6	1,215
3	Semiconducting polymer nanoparticles as photoacoustic molecular imaging probes in living mice. <i>Nature Nanotechnology</i> , 2014, 9, 233-239.	15.6	1,057
4	A brain tumor molecular imaging strategy using a new triple-modality MRI-photoacoustic-Raman nanoparticle. <i>Nature Medicine</i> , 2012, 18, 829-834.	15.2	1,029
5	Molecular imaging in drug development. <i>Nature Reviews Drug Discovery</i> , 2008, 7, 591-607.	21.5	1,000
6	A Molecular Imaging Primer: Modalities, Imaging Agents, and Applications. <i>Physiological Reviews</i> , 2012, 92, 897-965.	13.1	928
7	Nanomaterials for In Vivo Imaging. <i>Chemical Reviews</i> , 2017, 117, 901-986.	23.0	879
8	Multiplexed imaging of surface enhanced Raman scattering nanotags in living mice using noninvasive Raman spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13511-13516.	3.3	656
9	First-in-human liver-tumour surgery guided by multispectral fluorescence imaging in the visible and near-infrared-I/II windows. <i>Nature Biomedical Engineering</i> , 2020, 4, 259-271.	11.6	622
10	Molecular Imaging with Theranostic Nanoparticles. <i>Accounts of Chemical Research</i> , 2011, 44, 1050-1060.	7.6	464
11	Noninvasive cell-tracking methods. <i>Nature Reviews Clinical Oncology</i> , 2011, 8, 677-688.	12.5	439
12	Integrating genomic features for non-invasive early lung cancer detection. <i>Nature</i> , 2020, 580, 245-251.	13.7	379
13	Photoacoustic clinical imaging. <i>Photoacoustics</i> , 2019, 14, 77-98.	4.4	368
14	Matrix-insensitive protein assays push the limits of biosensors in medicine. <i>Nature Medicine</i> , 2009, 15, 1327-1332.	15.2	359
15	Gold Nanorods for Ovarian Cancer Detection with Photoacoustic Imaging and Resection Guidance via Raman Imaging in Living Mice. <i>ACS Nano</i> , 2012, 6, 10366-10377.	7.3	357
16	Miniature gold nanorods for photoacoustic molecular imaging in the second near-infrared optical window. <i>Nature Nanotechnology</i> , 2019, 14, 465-472.	15.6	349
17	Noninvasive detection of therapeutic cytolytic T cells with ^{18}F -FHBG PET in a patient with glioma. <i>Nature Clinical Practice Oncology</i> , 2009, 6, 53-58.	4.3	345
18	Ex vivo cell labeling with ^{64}Cu -pyruvaldehyde-bis(N4-methylthiosemicarbazone) for imaging cell trafficking in mice with positron-emission tomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3030-3035.	3.3	333

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19	Engineering high-affinity PD-1 variants for optimized immunotherapy and immuno-PET imaging. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6506-14.	3.3	299
20	Early detection of cancer. Science, 2022, 375, eaay9040.	6.0	291
21	Eradication of spontaneous malignancy by local immunotherapy. Science Translational Medicine, 2018, 10, .	5.8	289
22	The Exosome Total Isolation Chip. ACS Nano, 2017, 11, 10712-10723.	7.3	275
23	Reporter gene imaging of targeted T cell immunotherapy in recurrent glioma. Science Translational Medicine, 2017, 9, .	5.8	263
24	Towards clinically translatable in vivo nanodiagnostics. Nature Reviews Materials, 2017, 2, .	23.3	255
25	A Novel High-Sensitivity Rapid-Acquisition Single-Photon Cardiac Imaging Camera. Journal of Nuclear Medicine, 2009, 50, 635-643.	2.8	241
26	Quantification of target gene expression by imaging reporter gene expression in living animals. Nature Medicine, 2000, 6, 933-937.	15.2	219
27	Selective uptake of single-walled carbon nanotubes by circulating monocytes for enhanced tumour delivery. Nature Nanotechnology, 2014, 9, 481-487.	15.6	216
28	Mathematical Model Identifies Blood Biomarker-Based Early Cancer Detection Strategies and Limitations. Science Translational Medicine, 2011, 3, 109ra116.	5.8	202
29	Activatable Oligomerizable Imaging Agents for Photoacoustic Imaging of Furin-Like Activity in Living Subjects. Journal of the American Chemical Society, 2013, 135, 11015-11022.	6.6	196
30	A small animal Raman instrument for rapid, wide-area, spectroscopic imaging. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12408-12413.	3.3	185
31	Clinically Approved Nanoparticle Imaging Agents. Journal of Nuclear Medicine, 2016, 57, 1833-1837.	2.8	181
32	Tumor Cell-Derived Extracellular Vesicle-Coated Nanocarriers: An Efficient Theranostic Platform for the Cancer-Specific Delivery of Anti-miR-21 and Imaging Agents. ACS Nano, 2018, 12, 10817-10832.	7.3	170
33	Mitochondrial copper depletion suppresses triple-negative breast cancer in mice. Nature Biotechnology, 2021, 39, 357-367.	9.4	163
34	Carbon-coated FeCo nanoparticles as sensitive magnetic-particle-imaging tracers with photothermal and magnetothermal properties. Nature Biomedical Engineering, 2020, 4, 325-334.	11.6	160
35	Pilot Comparison of ⁶⁸ Ga-RM2 PET and ⁶⁸ Ga-PSMA-11 PET in Patients with Biochemically Recurrent Prostate Cancer. Journal of Nuclear Medicine, 2016, 57, 557-562.	2.8	155
36	Development and MPI tracking of novel hypoxia-targeted theranostic exosomes. Biomaterials, 2018, 177, 139-148.	5.7	155

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37	Molecular Imaging: The Vision and Opportunity for Radiology in the Future. <i>Radiology</i> , 2007, 244, 39-47.	3.6	151
38	The Fate and Toxicity of Raman-Active Silica-Gold Nanoparticles in Mice. <i>Science Translational Medicine</i> , 2011, 3, 79ra33.	5.8	139
39	Novel Radiotracer for ImmunoPET Imaging of PD-1 Checkpoint Expression on Tumor Infiltrating Lymphocytes. <i>Bioconjugate Chemistry</i> , 2015, 26, 2062-2069.	1.8	139
40	Toward achieving precision health. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	134
41	Pilot Pharmacokinetic and Dosimetric Studies of ¹⁸ F-FPPRGD2: A PET Radiopharmaceutical Agent for Imaging α _v β ₃ Integrin Levels. <i>Radiology</i> , 2011, 260, 182-191.	3.6	131
42	Endoscopic molecular imaging of human bladder cancer using a CD47 antibody. <i>Science Translational Medicine</i> , 2014, 6, 260ra148.	5.8	124
43	PET imaging of herpes simplex virus type 1 thymidine kinase (HSV1-tk) or mutant HSV1-sr39tk reporter gene expression in mice and humans using [¹⁸ F]FHBG. <i>Nature Protocols</i> , 2006, 1, 3069-3074.	5.5	118
44	Exploratory Clinical Trial of (4 <i>S</i>)-4-(3-[¹⁸ F]fluoropropyl)-L-glutamate for Imaging xCâ ⁺ Transporter Using Positron Emission Tomography in Patients with Nonâ€“Small Cell Lung or Breast Cancer. <i>Clinical Cancer Research</i> , 2012, 18, 5427-5437.	3.2	114
45	Imaging activated T cells predicts response to cancer vaccines. <i>Journal of Clinical Investigation</i> , 2018, 128, 2569-2580.	3.9	114
46	A mountable toilet system for personalized health monitoring via the analysis of excreta. <i>Nature Biomedical Engineering</i> , 2020, 4, 624-635.	11.6	112
47	Imaging progress of herpes simplex virus type 1 thymidine kinase suicide gene therapy in living subjects with positron emission tomography. <i>Cancer Gene Therapy</i> , 2005, 12, 329-339.	2.2	107
48	Tomographic magnetic particle imaging of cancer targeted nanoparticles. <i>Nanoscale</i> , 2017, 9, 18723-18730.	2.8	107
49	A Real-Time Clinical Endoscopic System for Intraluminal, Multiplexed Imaging of Surface-Enhanced Raman Scattering Nanoparticles. <i>PLoS ONE</i> , 2015, 10, e0123185.	1.1	106
50	A mathematical model of ctDNA shedding predicts tumor detection size. <i>Science Advances</i> , 2020, 6, .	4.7	105
51	Seeing is believing: Non-invasive, quantitative and repetitive imaging of reporter gene expression in living animals, using positron emission tomography. <i>Journal of Neuroscience Research</i> , 2000, 59, 699-705.	1.3	103
52	Practical Immuno-PET Radiotracer Design Considerations for Human Immune Checkpoint Imaging. <i>Journal of Nuclear Medicine</i> , 2017, 58, 538-546.	2.8	102
53	Engineered immune cells as highly sensitive cancer diagnostics. <i>Nature Biotechnology</i> , 2019, 37, 531-539.	9.4	101
54	A PET Imaging Strategy to Visualize Activated T Cells in Acute Graft-versus-Host Disease Elicited by Allogenic Hematopoietic Cell Transplant. <i>Cancer Research</i> , 2017, 77, 2893-2902.	0.4	98

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55	Prospective Comparison of ^{99m} Tc-MDP Scintigraphy, Combined ¹⁸ F-NaF and ¹⁸ F-FDG PET/CT, and Whole-Body MRI in Patients with Breast and Prostate Cancer. <i>Journal of Nuclear Medicine</i> , 2015, 56, 1862-1868.	2.8	95
56	Comparison of [¹⁸ F]FHBG and [¹⁴ C]FIAU for imaging of HSV1-tk reporter gene expression: adenoviral infection vs stable transfection. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2003, 30, 1547-1560.	3.3	94
57	Imaging approaches to optimize molecular therapies. <i>Science Translational Medicine</i> , 2016, 8, 355ps16.	5.8	93
58	An intravascular magnetic wire for the high-throughput retrieval of circulating tumour cells in vivo. <i>Nature Biomedical Engineering</i> , 2018, 2, 696-705.	11.6	92
59	Development of Novel ImmunoPET Tracers to Image Human PD-1 Checkpoint Expression on Tumor-Infiltrating Lymphocytes in a Humanized Mouse Model. <i>Molecular Imaging and Biology</i> , 2017, 19, 903-914.	1.3	91
60	Molecular profiling of single circulating tumor cells from lung cancer patients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8379-E8386.	3.3	90
61	Simultaneous transrectal ultrasound and photoacoustic human prostate imaging. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	87
62	Trop2 is a driver of metastatic prostate cancer with neuroendocrine phenotype via PARP1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2032-2042.	3.3	85
63	Investigation of 6-[¹⁸ F]-Fluoromaltose as a Novel PET Tracer for Imaging Bacterial Infection. <i>PLoS ONE</i> , 2014, 9, e107951.	1.1	85
64	New Positron Emission Tomography (PET) Radioligand for Imaging β -1 Receptors in Living Subjects. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 8272-8282.	2.9	81
65	Surface-Enhanced Raman Scattering Nanoparticles for Multiplexed Imaging of Bladder Cancer Tissue Permeability and Molecular Phenotype. <i>ACS Nano</i> , 2018, 12, 9669-9679.	7.3	81
66	Fluorescent Magnetic Nanoparticles for Magnetically Enhanced Cancer Imaging and Targeting in Living Subjects. <i>ACS Nano</i> , 2012, 6, 6862-6869.	7.3	79
67	Specific Imaging of Bacterial Infection Using ^{64}Cu - ¹⁸ F-Fluoromaltotriose: A Second-Generation PET Tracer Targeting the Maltodextrin Transporter in Bacteria. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1679-1684.	2.8	79
68	Maltotriose-based probes for fluorescence and photoacoustic imaging of bacterial infections. <i>Nature Communications</i> , 2020, 11, 1250.	5.8	78
69	Deep Tissue Photoacoustic Imaging Using a Miniaturized 2-D Capacitive Micromachined Ultrasonic Transducer Array. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 1199-1204.	2.5	73
70	ICOS Is an Indicator of T-cell-Mediated Response to Cancer Immunotherapy. <i>Cancer Research</i> , 2020, 80, 3023-3032.	0.4	72
71	Multiparametric Photoacoustic Analysis of Human Thyroid Cancers <i>In Vivo</i> . <i>Cancer Research</i> , 2021, 81, 4849-4860.	0.4	72
72	Simultaneous Whole-Body Time-of-Flight ¹⁸ F-FDG PET/MRI. <i>Clinical Nuclear Medicine</i> , 2015, 40, 1-8.	0.7	70

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73	Proof-of-Concept Study of Monitoring Cancer Drug Therapy with Cerenkov Luminescence Imaging. <i>Journal of Nuclear Medicine</i> , 2012, 53, 312-317.	2.8	68
74	The Immunoimaging Toolbox. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1174-1182.	2.8	68
75	A PET imaging approach for determining EGFR mutation status for improved lung cancer patient management. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	66
76	Gene therapy imaging in patients for oncological applications. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2005, 32, S384-S403.	3.3	61
77	Circulating Tumor Microemboli Diagnostics for Patients with Non-“Small-Cell Lung Cancer. <i>Journal of Thoracic Oncology</i> , 2014, 9, 1111-1119.	0.5	61
78	Emerging Intraoperative Imaging Modalities to Improve Surgical Precision. <i>Molecular Imaging and Biology</i> , 2018, 20, 705-715.	1.3	61
79	Low-frequency ultrasound-mediated cytokine transfection enhances T cell recruitment at local and distant tumor sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12674-12685.	3.3	61
80	Comparison of [14C]FMAU, [3H]FEAU, [14C]FIAU, and [3H]PCV for Monitoring Reporter Gene Expression of Wild Type and Mutant Herpes Simplex Virus Type 1 Thymidine Kinase in Cell Culture. <i>Molecular Imaging and Biology</i> , 2005, 7, 296-303.	1.3	59
81	Evaluation of a ⁶⁴ Cu-Labeled Cystine-Knot Peptide Based on Agouti-Related Protein for PET of Tumors Expressing \int_{\pm}^{ν} ² ₃ Integrin. <i>Journal of Nuclear Medicine</i> , 2010, 51, 251-258.	2.8	59
82	High-sensitivity, real-time, ratiometric imaging of surface-enhanced Raman scattering nanoparticles with a clinically translatable Raman endoscope device. <i>Journal of Biomedical Optics</i> , 2013, 18, 1.	1.4	58
83	Plasmonic and Electrostatic Interactions Enable Uniformly Enhanced Liquid Bacterial Surface-Enhanced Raman Scattering (SERS). <i>Nano Letters</i> , 2020, 20, 7655-7661.	4.5	56
84	PET imaging of tumor glycolysis downstream of hexokinase through noninvasive measurement of pyruvate kinase M2. <i>Science Translational Medicine</i> , 2015, 7, 310ra169.	5.8	54
85	Microvesicle-Mediated Delivery of Minicircle DNA Results in Effective Gene-Directed Enzyme Prodrug Cancer Therapy. <i>Molecular Cancer Therapeutics</i> , 2019, 18, 2331-2342.	1.9	54
86	Molecular Imaging of Chimeric Antigen Receptor T Cells by ICOS-ImmunoPET. <i>Clinical Cancer Research</i> , 2021, 27, 1058-1068.	3.2	53
87	Reconstructed Apoptotic Bodies as Targeted “Nano Decoys” to Treat Intracellular Bacterial Infections within Macrophages and Cancer Cells. <i>ACS Nano</i> , 2020, 14, 5818-5835.	7.3	52
88	Pilot Preclinical and Clinical Evaluation of (4S)-4-(3-[18F]Fluoropropyl)-L-Glutamate (18F-FSPG) for PET/CT Imaging of Intracranial Malignancies. <i>PLoS ONE</i> , 2016, 11, e0148628.	1.1	51
89	Glioblastoma Multiforme Recurrence: An Exploratory Study of 18F FPPRGD2PET/CT. <i>Radiology</i> , 2015, 277, 497-506.	3.6	49
90	A Systematic Comparison of 18F-C-SNAT to Established Radiotracer Imaging Agents for the Detection of Tumor Response to Treatment. <i>Clinical Cancer Research</i> , 2015, 21, 3896-3905.	3.2	48

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91	Initial experience with a SiPM-based PET/CT scanner: influence of acquisition time on image quality. EJNMMI Physics, 2018, 5, 9.	1.3	47
92	Molecular Imaging of PET Reporter Gene Expression. Handbook of Experimental Pharmacology, 2008, , 277-303.	0.9	46
93	Detecting cancers through tumor-activatable minicircles that lead to a detectable blood biomarker. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3068-3073.	3.3	46
94	Whole-body tracking of single cells via positron emission tomography. Nature Biomedical Engineering, 2020, 4, 835-844.	11.6	46
95	A strategy for blood biomarker amplification and localization using ultrasound. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17152-17157.	3.3	43
96	Biodistribution of the 18F-FPPRGD2 PET radiopharmaceutical in cancer patients: an atlas of SUV measurements. European Journal of Nuclear Medicine and Molecular Imaging, 2015, 42, 1850-1858.	3.3	43
97	18F-FDG silicon photomultiplier PET/CT: A pilot study comparing semi-quantitative measurements with standard PET/CT. PLoS ONE, 2017, 12, e0178936.	1.1	43
98	A Comparison Between a Time Domain and Continuous Wave Small Animal Optical Imaging System. IEEE Transactions on Medical Imaging, 2008, 27, 58-63.	5.4	42
99	Assessment of Tumor Redox Status through <i>S</i> -4-(3-[18F]fluoropropyl)-L-Glutamic Acid PET Imaging of System xc ⁺ Activity. Cancer Research, 2022, 79, 853-863.	0.4	42
100	Reduction Triggered <i>In Situ</i> Polymerization in Living Mice. Journal of the American Chemical Society, 2020, 142, 15575-15584.	6.6	42
101	Nanomedicine for Spontaneous Brain Tumors: A Companion Clinical Trial. ACS Nano, 2019, 13, 2858-2869.	7.3	41
102	Detection of Premalignant Gastrointestinal Lesions Using Surface-Enhanced Resonance Raman Scattering—Nanoparticle Endoscopy. ACS Nano, 2019, 13, 1354-1364.	7.3	40
103	A High-Affinity, High-Stability Photoacoustic Agent for Imaging Gastrin-Releasing Peptide Receptor in Prostate Cancer. Clinical Cancer Research, 2014, 20, 3721-3729.	3.2	39
104	Continuous health monitoring: An opportunity for precision health. Science Translational Medicine, 2021, 13, .	5.8	39
105	The Project Baseline Health Study: a step towards a broader mission to map human health. Npj Digital Medicine, 2020, 3, 84.	5.7	38
106	A protease-activated, near-infrared fluorescent probe for early endoscopic detection of premalignant gastrointestinal lesions. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	38
107	⁶⁴ Cu-Labeled Divalent Cystine Knot Peptide for Imaging Carotid Atherosclerotic Plaques. Journal of Nuclear Medicine, 2015, 56, 939-944.	2.8	36
108	Imaging B Cells in a Mouse Model of Multiple Sclerosis Using ⁶⁴ Cu-Rituximab PET. Journal of Nuclear Medicine, 2017, 58, 1845-1851.	2.8	35

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109	A Novel Theranostic Strategy for <i>MMP-14</i> Expressing Glioblastomas Impacts Survival. <i>Molecular Cancer Therapeutics</i> , 2017, 16, 1909-1921.	1.9	35
110	AshwaMAX and Withaferin A inhibits gliomas in cellular and murine orthotopic models. <i>Journal of Neuro-Oncology</i> , 2016, 126, 253-264.	1.4	34
111	Biodistribution and Radiation Dosimetry of ¹⁸ F-FTC-146 in Humans. <i>Journal of Nuclear Medicine</i> , 2017, 58, 2004-2009.	2.8	34
112	Imaging Circulating Tumor Cells in Freely Moving Awake Small Animals Using a Miniaturized Intravital Microscope. <i>PLoS ONE</i> , 2014, 9, e86759.	1.1	33
113	Introduction: FIGURE 1.. <i>Journal of Nuclear Medicine</i> , 2008, 49, 1S-4S.	2.8	32
114	A Model-Based Personalized Cancer Screening Strategy for Detecting Early-Stage Tumors Using Blood-Borne Biomarkers. <i>Cancer Research</i> , 2017, 77, 2570-2584.	0.4	32
115	Synthesis of [18F]-labelled Maltose Derivatives as PET Tracers for Imaging Bacterial Infection. <i>Molecular Imaging and Biology</i> , 2015, 17, 168-176.	1.3	31
116	Positron emission tomography reporter gene strategy for use in the central nervous system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11402-11407.	3.3	31
117	Positron Emission Tomography of ⁶⁴ Cu-DOTA-Rituximab in a Transgenic Mouse Model Expressing Human CD20 for Clinical Translation to Image NHL. <i>Molecular Imaging and Biology</i> , 2012, 14, 608-616.	1.3	30
118	Deactivated CRISPR Associated Protein 9 for Minor-Allele Enrichment in Cell-Free DNA. <i>Clinical Chemistry</i> , 2018, 64, 307-316.	1.5	30
119	A Novel Engineered Small Protein for Positron Emission Tomography Imaging of Human Programmed Death Ligand-1: Validation in Mouse Models and Human Cancer Tissues. <i>Clinical Cancer Research</i> , 2019, 25, 1774-1785.	3.2	30
120	A photonic crystal cavity-optical fiber tip nanoparticle sensor for biomedical applications. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	29
121	Synthesis of (4-[18F]fluorophenyl)triphenylphosphonium as a potential imaging agent for mitochondrial dysfunction. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2005, 48, 131-137.	0.5	28
122	Biodegradable Fluorescent Nanoparticles for Endoscopic Detection of Colorectal Carcinogenesis. <i>Advanced Functional Materials</i> , 2019, 29, 1904992.	7.8	28
123	A Clinical Wide-Field Fluorescence Endoscopic Device for Molecular Imaging Demonstrating Cathepsin Protease Activity in Colon Cancer. <i>Molecular Imaging and Biology</i> , 2016, 18, 820-829.	1.3	27
124	SP94-Targeted Triblock Copolymer Nanoparticle Delivers Thymidine Kinase p53 Nitroreductase Triple Therapeutic Gene and Restores Anticancer Function against Hepatocellular Carcinoma in Vivo. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11307-11319.	4.0	27
125	Superiorized Photo-Acoustic Non-NEgative Reconstruction (SPANNER) for Clinical Photoacoustic Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 1888-1897.	5.4	26
126	Improving Image Quality by Accounting for Changes in Water Temperature during a Photoacoustic Tomography Scan. <i>PLoS ONE</i> , 2012, 7, e45337.	1.1	25

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127	Pilot prospective evaluation of 18F-FPPRGD2 PET/CT in patients with cervical and ovarian cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016, 43, 1047-1055.	3.3	25
128	Synergistic inhibition of glioma cell proliferation by Withaferin A and tumor treating fields. <i>Journal of Neuro-Oncology</i> , 2017, 134, 259-268.	1.4	25
129	PET Imaging of TIGIT Expression on Tumor-Infiltrating Lymphocytes. <i>Clinical Cancer Research</i> , 2021, 27, 1932-1940.	3.2	25
130	Detection of Stem Cell Transplant Rejection with Ferumoxytol MR Imaging: Correlation of MR Imaging Findings with Those at Intravital Microscopy. <i>Radiology</i> , 2017, 284, 495-507.	3.6	24
131	PET Reporter Gene Imaging and Ganciclovir-Mediated Ablation of Chimeric Antigen Receptor T Cells in Solid Tumors. <i>Cancer Research</i> , 2020, 80, 4731-4740.	0.4	24
132	Ultrasensitive Carbon Nanotubes for Photoacoustic Imaging of Inflamed Atherosclerotic Plaques. <i>Advanced Functional Materials</i> , 2021, 31, 2101005.	7.8	24
133	A Cystine Knot Peptide Targeting Integrin $\alpha_5\beta_1$ for Photoacoustic and Fluorescence Imaging of Tumors in Living Subjects. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1629-1634.	2.8	22
134	[18F]FSPG-PET reveals increased cystine/glutamate antiporter (xc-) activity in a mouse model of multiple sclerosis. <i>Journal of Neuroinflammation</i> , 2018, 15, 55.	3.1	21
135	Visualization of Activated T Cells by OX40-ImmunoPET as a Strategy for Diagnosis of Acute Graft-versus-Host Disease. <i>Cancer Research</i> , 2020, 80, 4780-4790.	0.4	21
136	Development and Validation of Non-Integrative, Self-Limited, and Replicating Minicircles for Safe Reporter Gene Imaging of Cell-Based Therapies. <i>PLoS ONE</i> , 2013, 8, e73138.	1.1	21
137	Isolation and Characterization of a Monobody with a Fibronectin Domain III Scaffold That Specifically Binds EphA2. <i>PLoS ONE</i> , 2015, 10, e0132976.	1.1	20
138	Development and Validation of an Immuno-PET Tracer as a Companion Diagnostic Agent for Antibody-Drug Conjugate Therapy to Target the CA6 Epitope. <i>Radiology</i> , 2015, 276, 191-198.	3.6	20
139	Discovery and Optimization of Small-Molecule Ligands for V-Domain Ig Suppressor of T-Cell Activation (VISTA). <i>Journal of the American Chemical Society</i> , 2020, 142, 16194-16198.	6.6	19
140	Noninvasive and Highly Multiplexed Five-Color Tumor Imaging of Multicore Near-Infrared Resonant Surface-Enhanced Raman Nanoparticles <i>In Vivo</i> . <i>ACS Nano</i> , 2021, 15, 19956-19969.	7.3	19
141	Improved detection of prostate cancer using a magneto-nanosensor assay for serum circulating autoantibodies. <i>PLoS ONE</i> , 2019, 14, e0221051.	1.1	18
142	Molecular Imaging of Biological Gene Delivery Vehicles for Targeted Cancer Therapy: Beyond Viral Vectors. <i>Nuclear Medicine and Molecular Imaging</i> , 2010, 44, 15-24.	0.6	17
143	Development of [18F]DASA-23 for Imaging Tumor Glycolysis Through Noninvasive Measurement of Pyruvate Kinase M2. <i>Molecular Imaging and Biology</i> , 2017, 19, 665-672.	1.3	16
144	A Magnetic Bead-Based Sensor for the Quantification of Multiple Prostate Cancer Biomarkers. <i>PLoS ONE</i> , 2015, 10, e0139484.	1.1	15

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145	Semiquantitative Analysis of the Biodistribution of the Combined ^{18}F -NaF and ^{18}F -FDG Administration for PET/CT Imaging. <i>Journal of Nuclear Medicine</i> , 2015, 56, 688-694.	2.8	15
146	Characterization of Physiologic ^{18}F FSPG Uptake in Healthy Volunteers. <i>Radiology</i> , 2016, 279, 898-905.	3.6	15
147	Clinical Evaluation of (4S)-4-(3-[^{18}F]Fluoropropyl)-L-glutamate (^{18}F -FSPG) for PET/CT Imaging in Patients with Newly Diagnosed and Recurrent Prostate Cancer. <i>Clinical Cancer Research</i> , 2020, 26, 5380-5387.	3.2	15
148	Ultra-high-frequency radio-frequency acoustic molecular imaging with saline nanodroplets in living subjects. <i>Nature Nanotechnology</i> , 2021, 16, 717-724.	15.6	15
149	Multiparameter Longitudinal Imaging of Immune Cell Activity in Chimeric Antigen Receptor T Cell and Checkpoint Blockade Therapies. <i>ACS Central Science</i> , 2022, 8, 590-602.	5.3	15
150	Giant Magnetoresistive Nanosensor Analysis of Circulating Tumor DNA Epidermal Growth Factor Receptor Mutations for Diagnosis and Therapy Response Monitoring. <i>Clinical Chemistry</i> , 2021, 67, 534-542.	1.5	14
151	Alk5 inhibition increases delivery of macromolecular and protein-bound contrast agents to tumors. <i>JCI Insight</i> , 2016, 1, .	2.3	13
152	Longitudinal Monitoring of Antibody Responses against Tumor Cells Using Magneto-nanosensors with a Nanoliter of Blood. <i>Nano Letters</i> , 2017, 17, 6644-6652.	4.5	13
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